

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 November 2004 (11.11.2004)

PCT

(10) International Publication Number
WO 2004/096118 A2

- (51) International Patent Classification⁷: **A61K**
- (21) International Application Number:
PCT/IL2004/000330
- (22) International Filing Date: 15 April 2004 (15.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
155666 29 April 2003 (29.04.2003) IL
- (71) Applicant (for all designated States except US): **NEURIM PHARMACEUTICALS (1991) LTD.** [IL/IL]; 8 Hanechoshet Street, 69710 Tel Aviv (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ZISAPEL, Nava** [IL/IL]; 23 Kisufim Street, 69355 Tel Aviv (IL). **LAUDON, Moshe** [IL/IL]; 30 Herzl Street, 44444 Kfar Saba (IL).
- (74) Agent: **JEREMY M. BEN-DAVID & CO. LTD.**; P.O. Box 45087, Har Hotzvim Hi-Tech Park, 91450 Jerusalem (IL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITION FOR IMPROVING COGNITION AND MEMORY

(57) Abstract: The invention relates to a pharmacologically active combination, having utility in treating insomnia patients, which comprises: (a) at least one first active ingredient selected from melatonin, other melatonergic agents, melatonin agonists and melatonin antagonists; and (b) at least one second active ingredient selected from nicotine and nicotine receptor agonists; to use of a medicament containing component (a) with or without component (b) for alleviation of at least one adverse effect which occurs in a patient in the course of nicotine replacement therapy, or otherwise, selected from impairment of the quality of sleep, impairment of cognition and impairment of memory, as well as to a kit having utility in treating insomnia patients, which comprises components (a) and (b) in unit dosage form.